

Open|SpeedShop Graphical User Interface Technology, Phase I

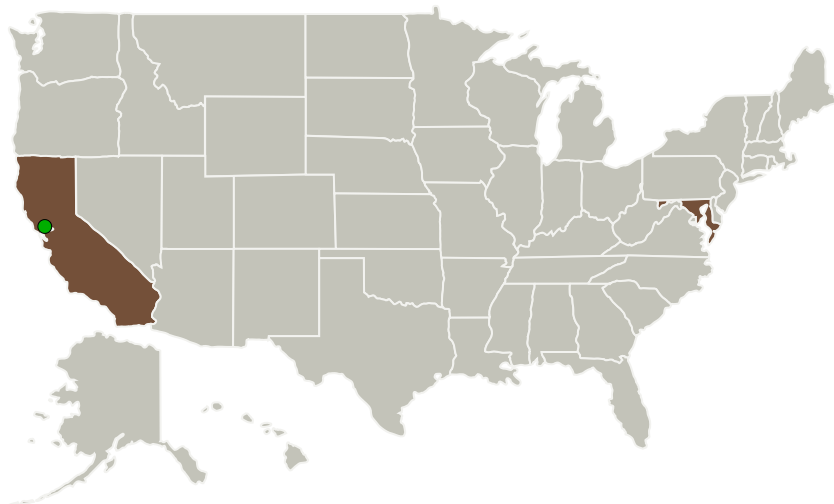
Completed Technology Project (2011 - 2011)



Project Introduction

We propose to create a new graphical user interface (GUI) for an existing parallel application performance and profiling tool, Open|SpeedShop. The current GUI has many deficiencies, but also many strengths which we will incorporate in this new design. We will capitalize on these strengths and build upon them by extending the functionality, thus increasing the range of possible uses, the total user experience and its scalability. Graphical user interfaces for performance tools are crucial in enhancing the users ability to understand analysis information gathered by a tool in the HPC environment because they give an immediate visual representation of the application's performance. A graphical user interface allows users to quickly focus in on areas of the science and engineering application program where bottlenecks are occurring. The graphical user interface has been identified by Argo Navis Technologies LLC as the leading portion of the project that is preventing extensive adoption and use in this industry. Numerous users, upon which this open source software project depends, have asserted many concerns regarding the current GUI. Within this proposal several problem areas have been listed, along with solutions directly addressing each. With this funding, Open|SpeedShop will become a predominant force in the HPC performance tools domain.

Primary U.S. Work Locations and Key Partners



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Organizations Performing Work	Role	Type	Location
Argo Navis Technologies LLC	Lead Organization	Industry	Annapolis, Maryland
● Ames Research Center(ARC)	Supporting Organization	NASA Center	Moffett Field, California

Primary U.S. Work Locations	
California	Maryland

Project Transitions

▶ **February 2011:** Project Start

✓ **August 2011:** Closed out

Closeout Documentation:

- Final Summary Chart(<https://techport.nasa.gov/file/138389>)

Organizational Responsibility

Responsible Mission Directorate:

Space Technology Mission Directorate (STMD)

Lead Organization:

Argo Navis Technologies LLC

Responsible Program:

Small Business Innovation Research/Small Business Tech Transfer

Project Management

Program Director:

Jason L Kessler

Program Manager:

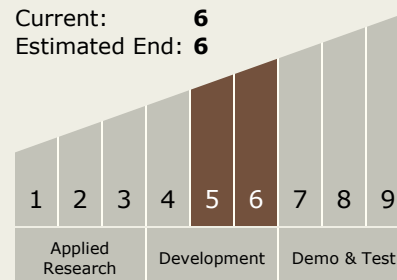
Carlos Torrez

Principal Investigator:

James E Galarowicz

Technology Maturity (TRL)

Start: 5
Current: 6
Estimated End: 6





Technology Areas

Primary:

- TX06 Human Health, Life Support, and Habitation Systems
 - └ TX06.6 Human Systems Integration
 - └ TX06.6.1 Human Factors Engineering

Target Destinations

The Sun, Earth, The Moon, Mars, Others Inside the Solar System, Outside the Solar System